

CLAIMS

1. A blast mitigation structure (1) comprising one or more rigid free-standing frames (2) of one or more channel section, the or each frame being adapted to receive in the or each channel, in use, one or more rupturable containers (3)  
5 adapted to contain liquid to thereby form a protective tunnel around e.g. a vehicle for mitigating against the effects of an explosion.
2. A blast mitigation structure according to claim 1, wherein the or each rigid free-standing frame is in the form of an arch.
3. A blast mitigation structure according to claim 1 or claim 2, wherein the or  
10 each rigid free-standing frame is made of a rigid, lightweight material.
4. A blast mitigation structure according to claim 3 wherein the material is aluminium, reinforced plastic or the like.
5. A blast mitigation structure according to any preceding claim, wherein the or each rigid free-standing frame has apertures (5) therein such that the  
15 exposed parts of the or each rupturable container are in the direct path of an explosion.
6. A blast mitigation structure according to claim 5 in which the or each free-standing frame has apertures therein in the form of a grill.
7. A blast mitigation structure according to any preceding claim, wherein  
20 opposing sidewalls of the or each said channel section of the or each rigid free-standing frame extend only partially around opposing side walls of the or each rupturable container, such that where two or more of such frames and corresponding containers are placed side-by-side, when inflated the side-by-side containers touch beyond the opposing sidewalls of the side-by-side frames.

8. A blast mitigation structure according to any preceding claim, wherein said structure is transportable.
9. A blast mitigation structure according to claim 8, wherein said structure is in the form of a wheeled vehicle.
- 5 10. A blast mitigation structure according to any preceding claim, wherein a plurality of said rigid free-standing frames are placed adjacent each other to form an arched tunnel.
- 10 11. A blast mitigation structure according to claim 10, wherein free-standing water-filled rupturable containers (3a, 3b) are positioned at each open end of said tunnel, so as to provide a closed structure.
12. A blast mitigation structure according to any one of claims 1 to 11 further comprising one or more rupturable containers containing liquid, the blast mitigation structure forming a protective tunnel around e.g. a vehicle for mitigating against the effects of an explosion.
- 15 13. A kit of parts capable of providing a blast mitigation structure according to claim 12, the kit of parts comprising one or more rupturable containers adapted to contain liquid and one or more rigid free-standing frames of one or more channel section, the or each frame being adapted to receive in the or each channel, in use, said one or more rupturable containers.
- 20 14. A kit of parts according to claim 13 further comprising a plurality of trolleys on which at least the one or more rigid free-standing frames are disposed.